

Vydyne® PF007

polyamide 6



Vydyne PF007 is a 35% glass fiber reinforced PA6 for injection molded applications.

General

Regional Availability	• North America	• Europe
Additive	• Heat Stabilizer	• Release agent
Features	• High Rigidity	• High Strength
Agency Rating	• ISO, 1043 PA6 GF35	
Appearance	• Natural Color	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical

	dry	cond.	Unit	Test Standard
Density	1.42	-	g/cm ³	ISO 1183
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	1.6	*	%	
Water Absorption, Saturation, 23°C	6.2		%	ISO 62

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	10000	-	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	180	-	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.2	-	%	ISO 527-2
Flexural Modulus (23°C)	9750	-	MPa	ISO 178
Flexural Strength (23°C)	280	-	MPa	ISO 178

Impact

	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	15	-	kJ/m ²	
-30°C	12	-	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	90	-	kJ/m ²	
-30°C	85	-	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	16	-	kJ/m ²	
-30°C	11	-	kJ/m ²	
-40°C	10	-	kJ/m ²	

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Thermal	dry	cond.	Unit	Test Standard
CLTE				ISO 11359-2
Flow : 23 to 55°C, 2.00 mm	21	*	E-6/K	
Transverse : 23 to 55°C, 2.00 mm	81	*	E-6/K	

Electrical	dry	cond.	Unit	Test Standard
Volume Resistivity (1.00 mm)	1E14	-	Ohm*m	IEC 60093
Comparative Tracking Index (3.00 mm)	500		V	IEC 60112

Flammability	dry	cond.	Unit	Test Standard
Glow Wire Flammability Index				IEC 60695-2-12
2.00 mm	650		°C	
Oxygen index	27	*	%	EN ISO 4589-2

Injection	Value	Unit
Drying Temperature	75 - 85	°C
Drying Time	4	h
Suggested Max Moisture	0.2	%
Rear Temperature	230 - 240	°C
Middle Temperature	240 - 250	°C
Front Temperature	240 - 270	°C
Processing (Melt) Temperature	240 - 270	°C
Mold Temperature	60 - 80	°C

